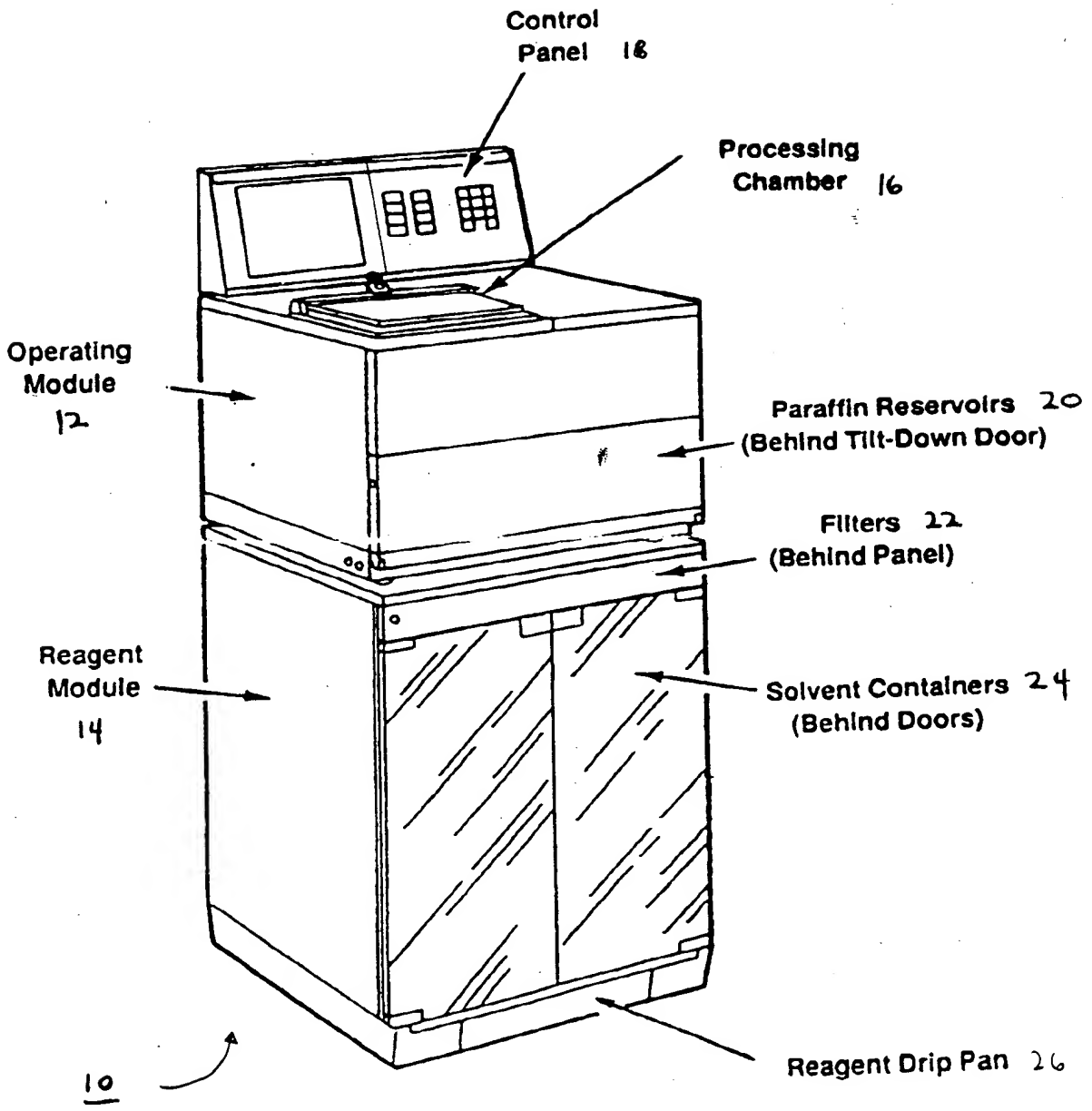

Control
Panel 18
Processing
Chamber 16
Operating
Module
12
Paraffin Reservoirs 20
(Behind Tilt-Down Door)
Filters 22
(Behind Panel)
Reagent
Module
14
Solvent Containers 24
(Behind Doors)
Reagent Drip Pan 26
10

FIGURE 1

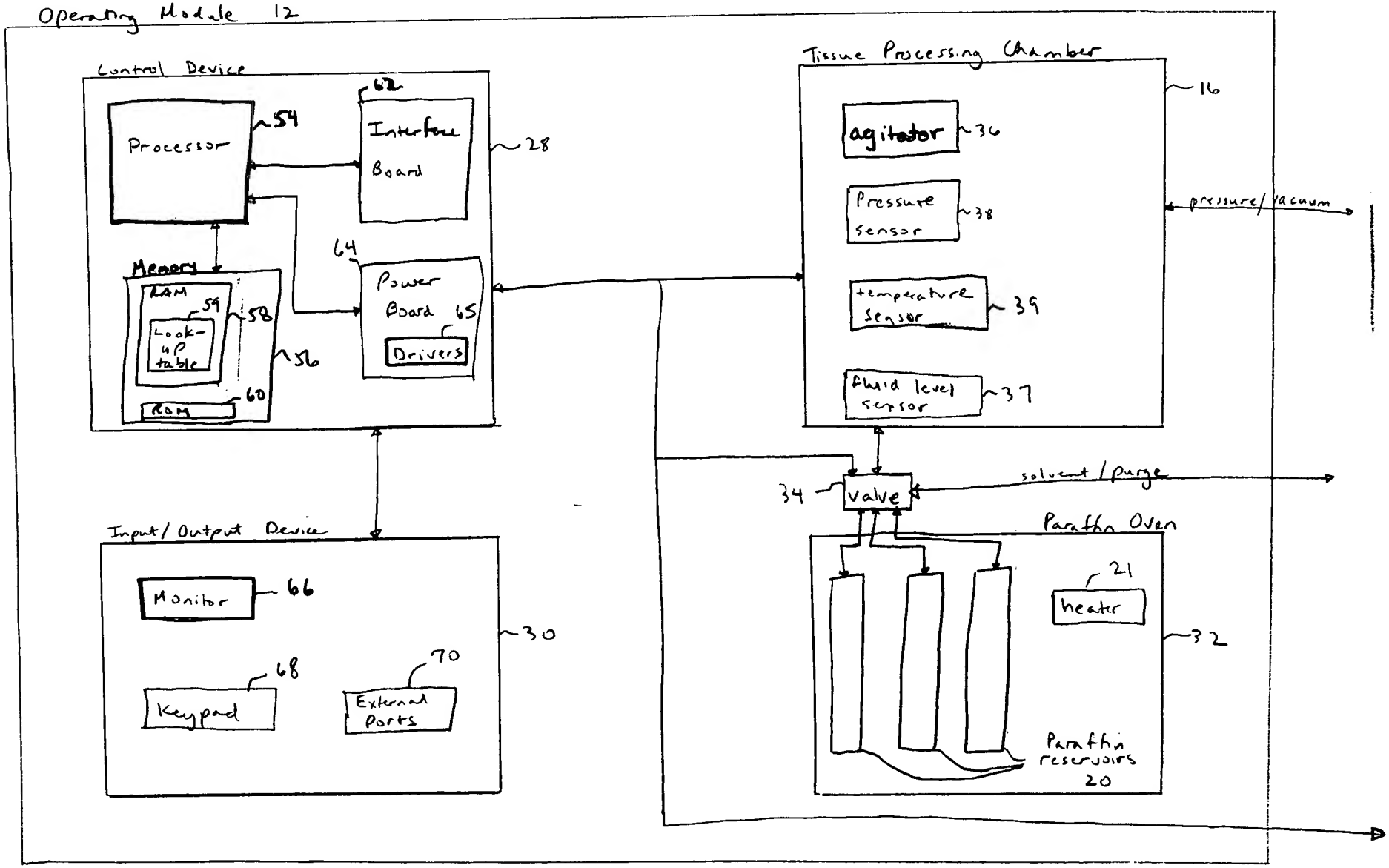

Operating Module 12
Control Device
Processor
54
62
Interface Board
28
Memory
RAM
59
58
Look-up table
56
ROM
60
64
Power Board
65
Drivers
Tissue Processing Chamber
16
agitator
36
Pressure sensor
38
pressure/vacuum
temperature sensor
39
fluid level sensor
37
34
valve
solvent/purge
Paraffin Oven
21
heater
32
Paraffin reservoirs
20
Input/Output Device
Monitor
66
30
Keypad
68
External Ports
70

FIGURE 2a

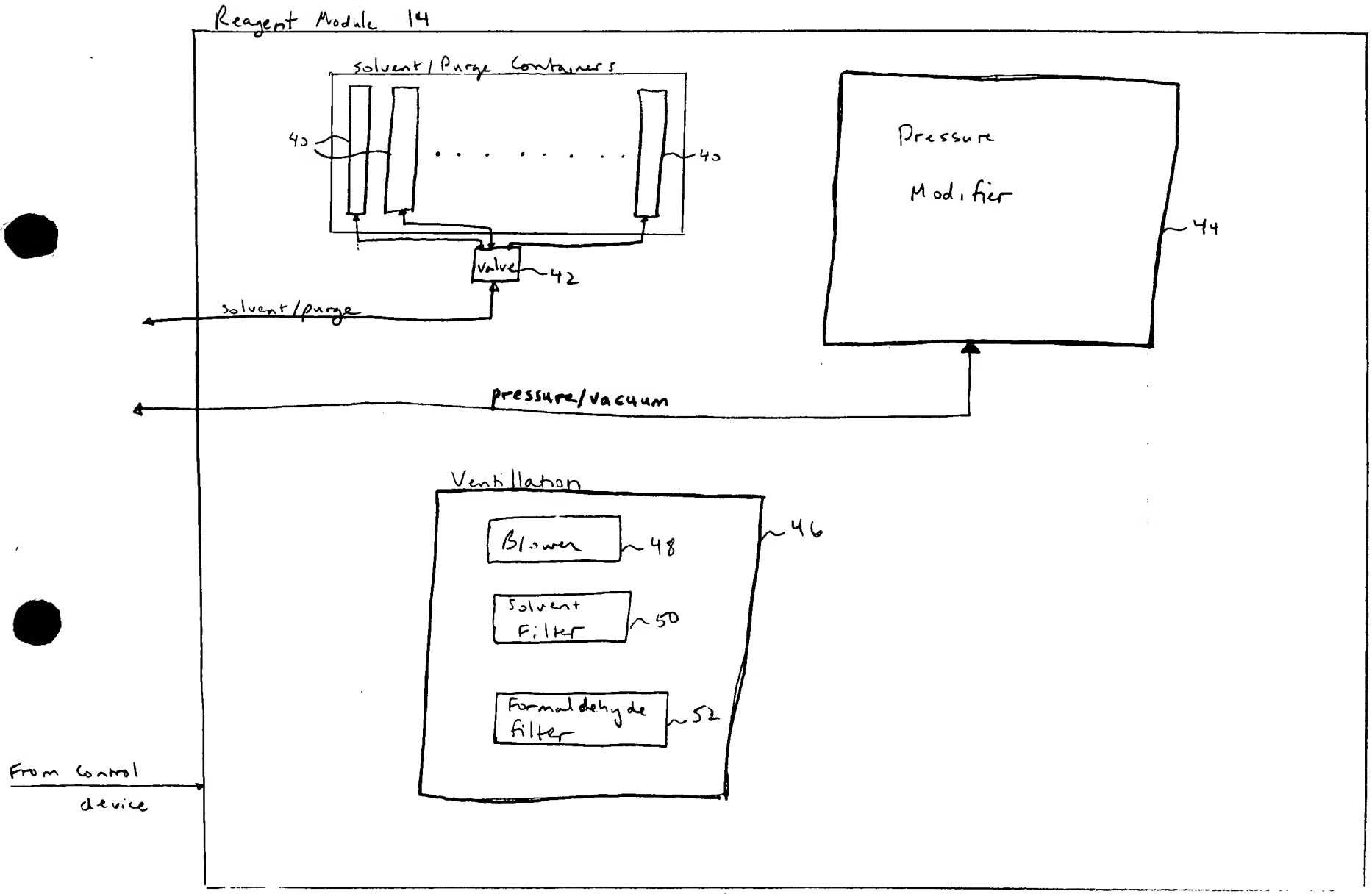


FIGURE 2b

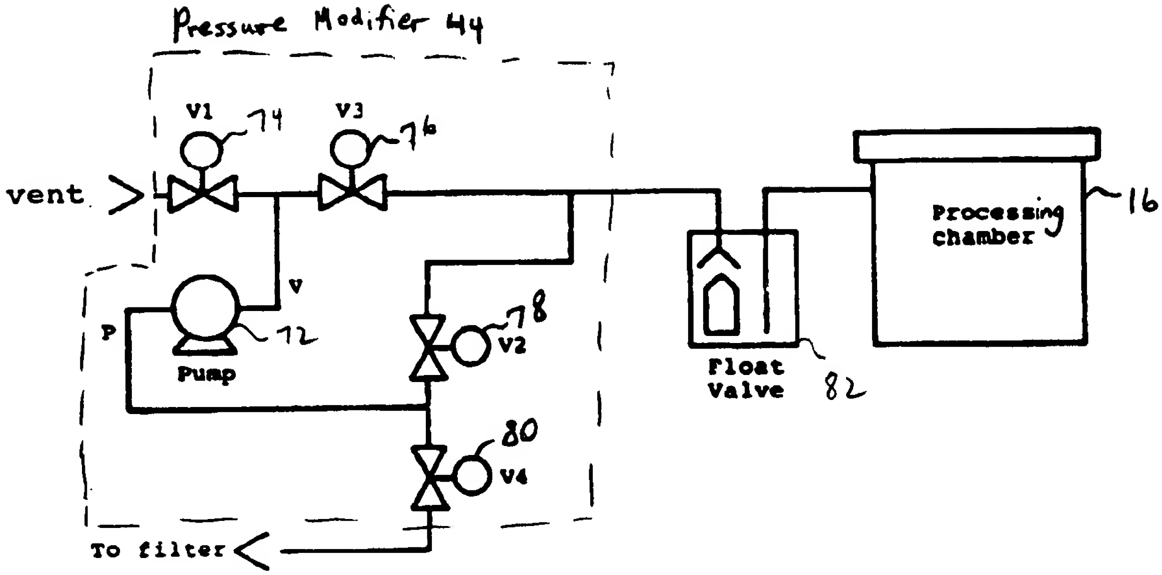
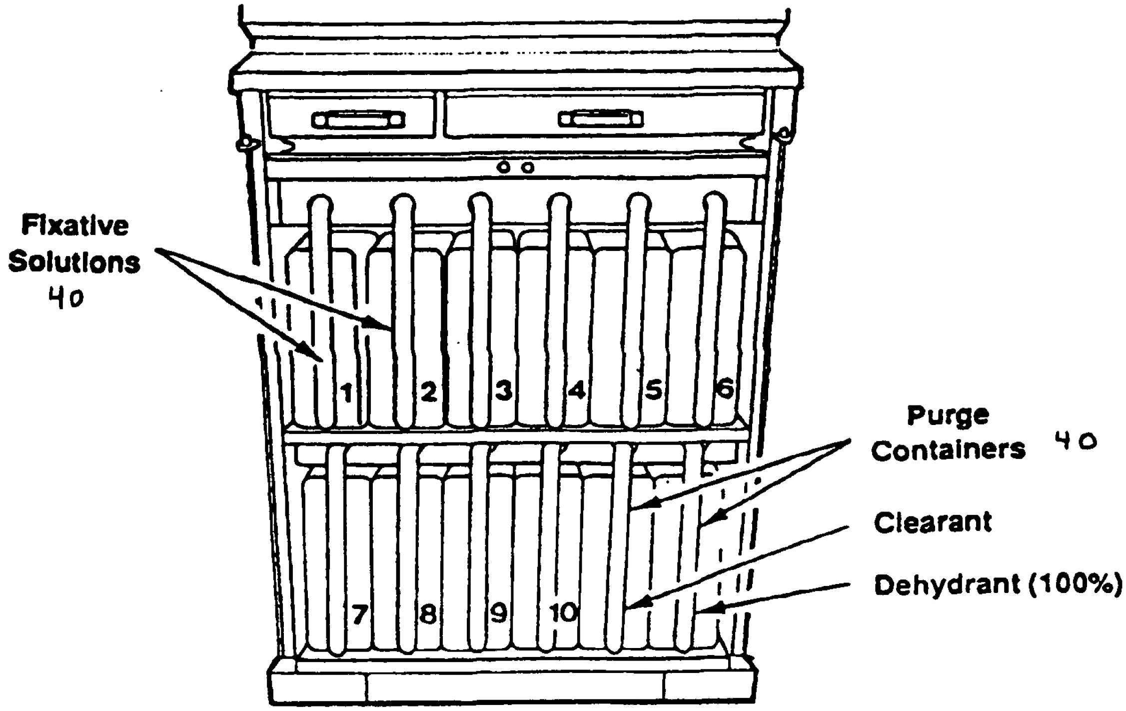

Pressure Modifier 44
V1
74
V3
76
vent
V
P
Pump
72
78
V2
80
V4
To filter
Float
Valve
82
Processing
chamber
16

Figure 3



Solvent Container Positions in the Reagent Module

FIGURE 4

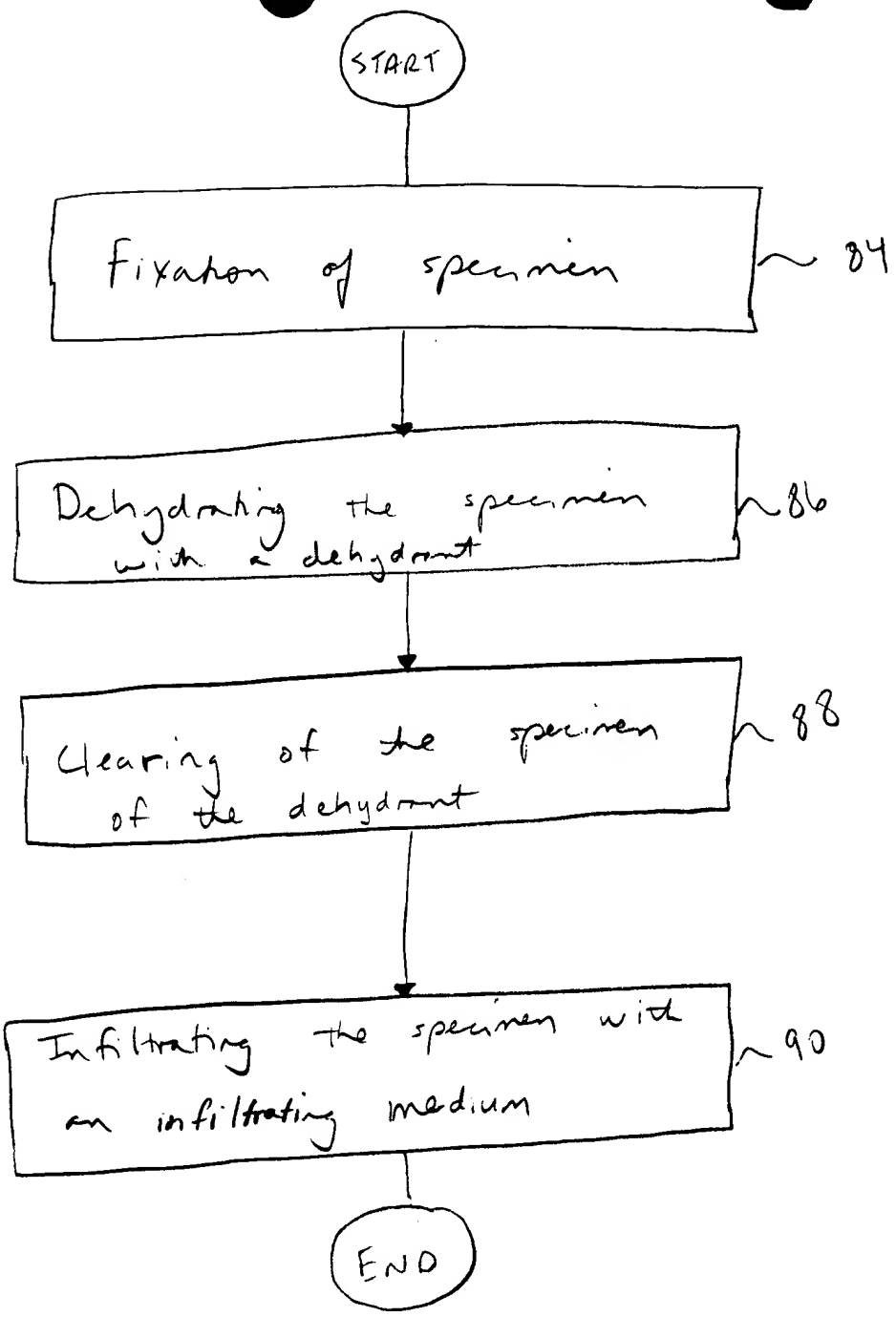
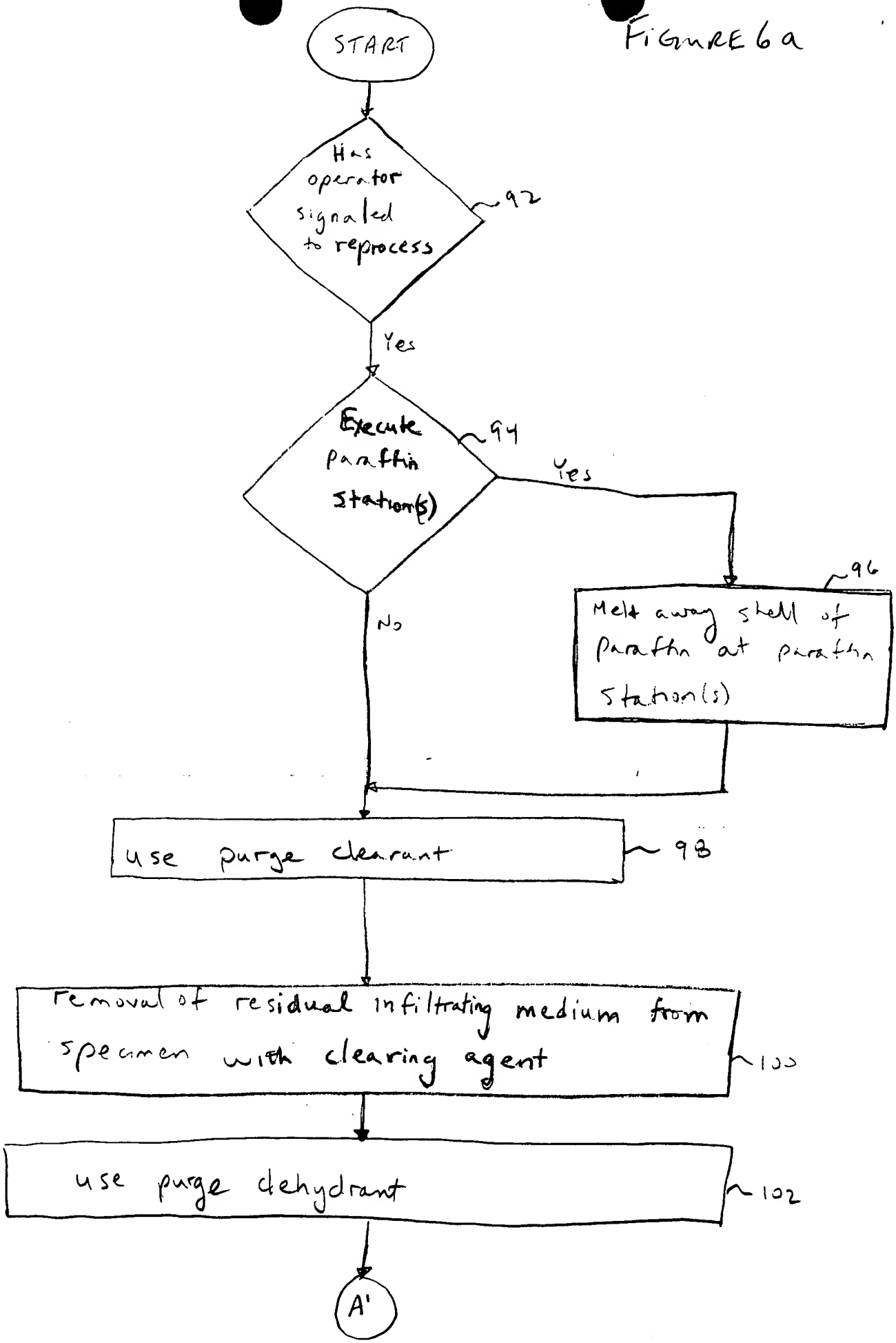

START
Fixation of specimen
84
Dehydrating the specimen with a dehydrant
86
Clearing of the specimen of the dehydrant
88
Infiltrating the specimen with an infiltrating medium
90
END

FIGURE 5

FIGURE 6a


START
Has operator signaled to reprocess
92
Yes
Execute paraffin station(s)
94
Yes
No
96
Melt away shell of paraffin at paraffin station(s)
use purge clearant
98
removal of residual infiltrating medium from specimen with clearing agent
100
use purge dehydrant
102
A'

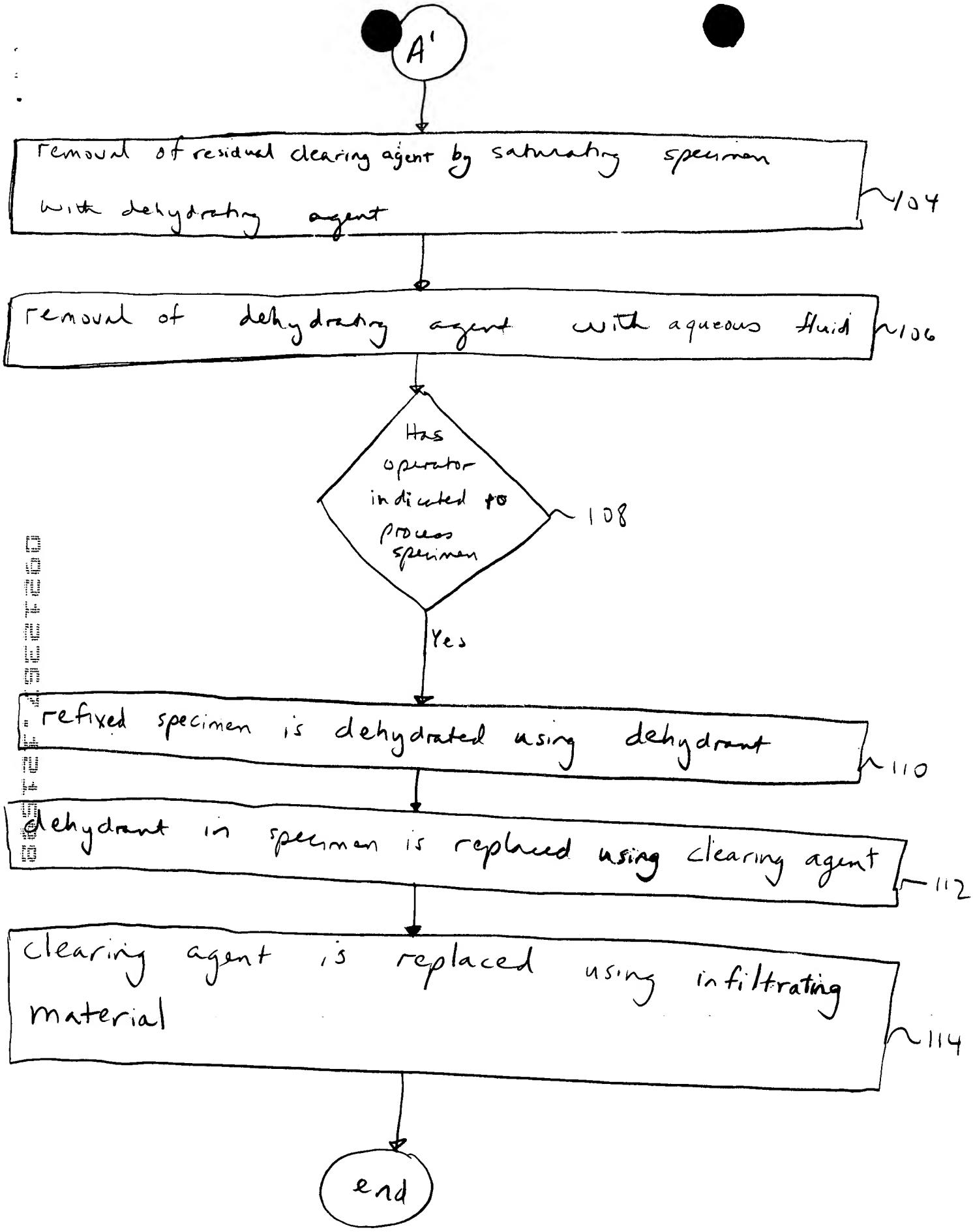
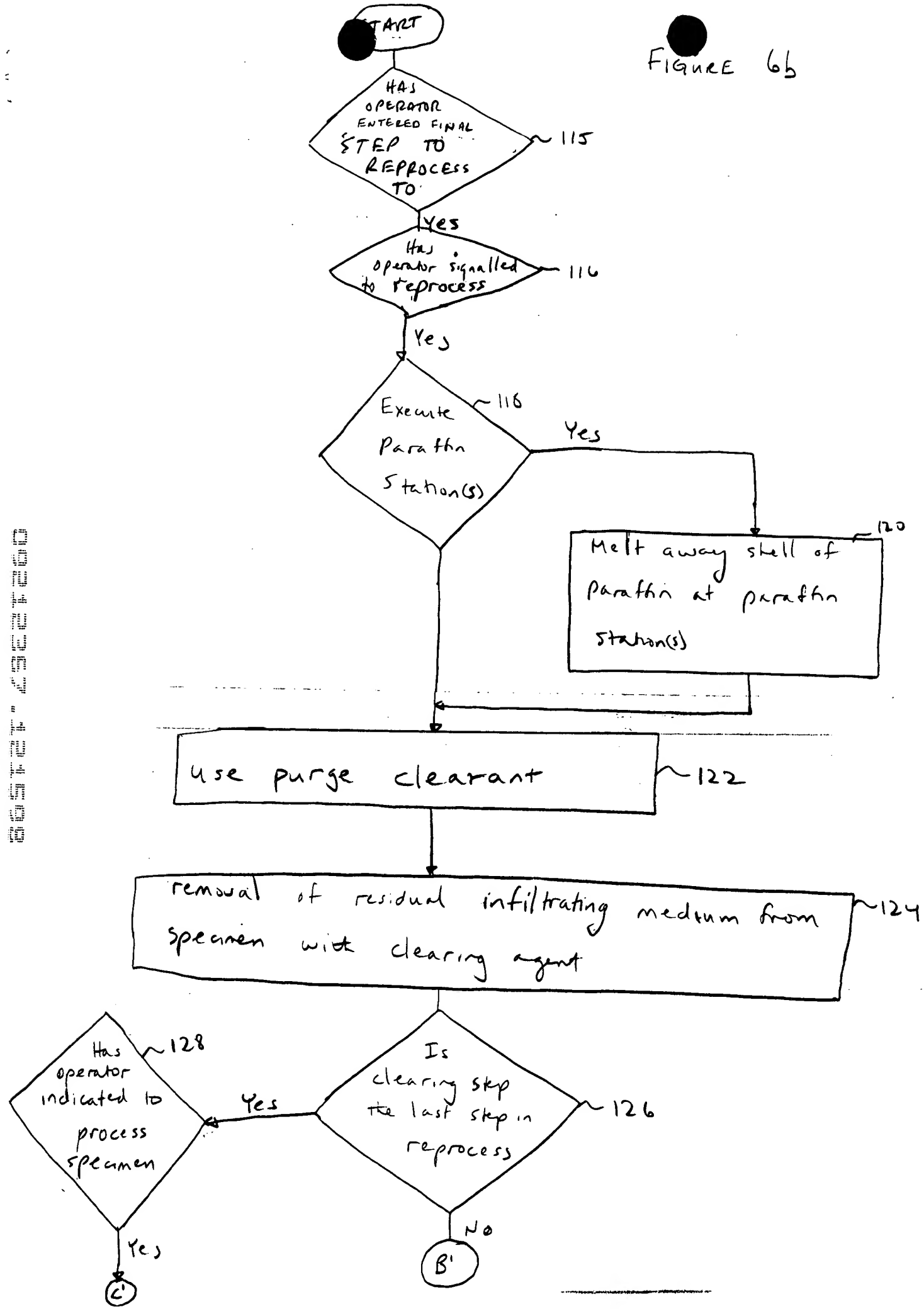
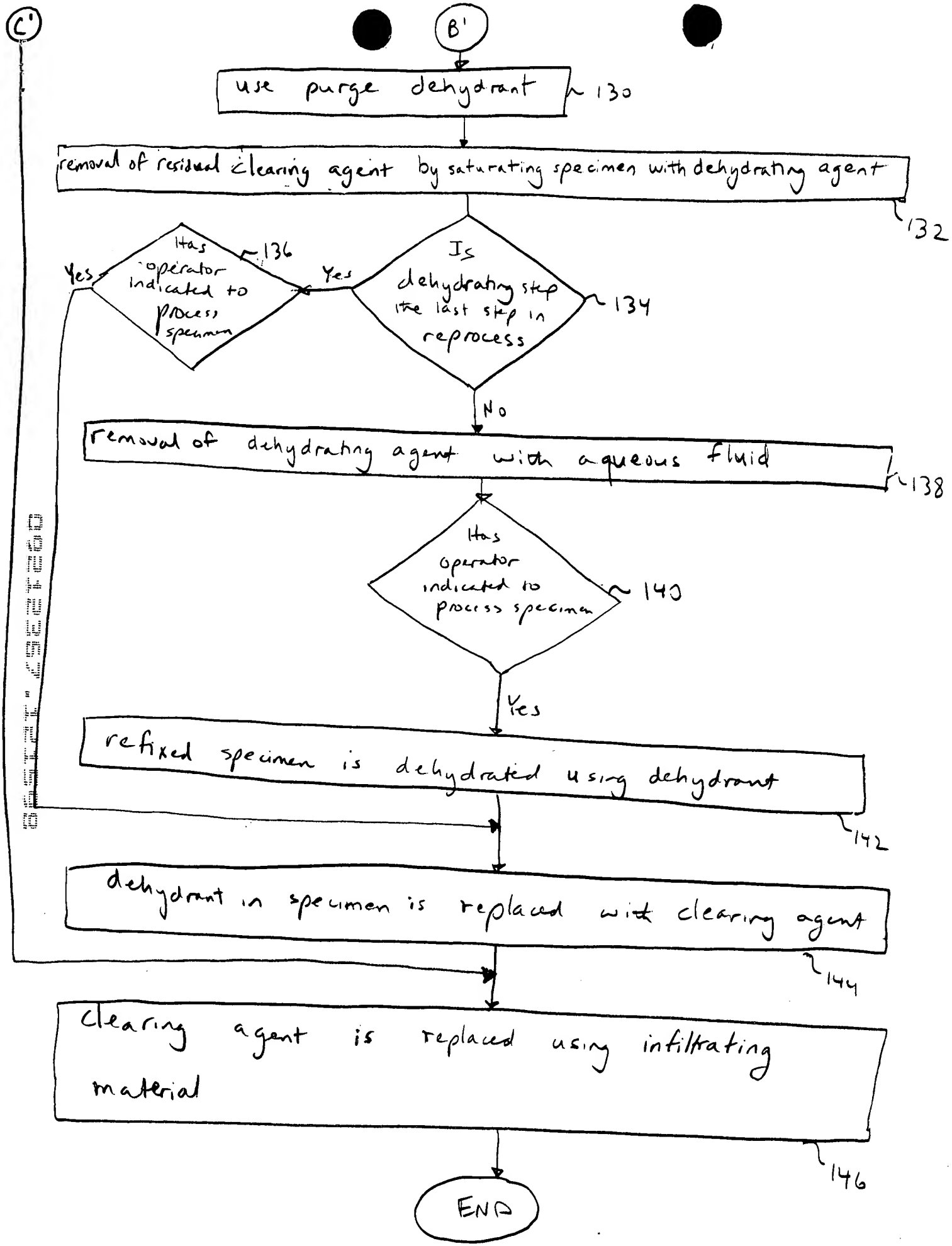

A'
removal of residual clearing agent by saturating specimen with dehydrating agent
104
removal of dehydrating agent with aqueous fluid
106
Has operator indicated to process specimen
108
No
Yes
refixed specimen is dehydrated using dehydrant
110
dehydrant in specimen is replaced using clearing agent
112
clearing agent is replaced using infiltrating material
114
end

FIGURE 6b


START
HAS OPERATOR ENTERED FINAL STEP TO REPROCESS TO
115
Yes
Has operator signalled to reprocess
116
Yes
Execute Paraffin Station(s)
116
Yes
120
Melt away shell of paraffin at paraffin station(s)
use purge clearant
122
removal of residual infiltrating medium from specimen with clearing agent
124
Is clearing step the last step in reprocess
126
No
B'
Has operator indicated to process specimen
128
Yes
C'


C'
B'
use purge dehydrant
130
removal of residual clearing agent by saturating specimen with dehydrating agent
132
Is dehydrating step the last step in reprocess
134
Yes
Has operator indicated to process specimen
136
Yes
No
removal of dehydrating agent with aqueous fluid
138
Has operator indicated to process specimen
140
Yes
refixed specimen is dehydrated using dehydrant
142
dehydrant in specimen is replaced with clearing agent
144
clearing agent is replaced using infiltrating material
146
END